

2014—2015



CITY OF  
PITTSBURGH

## STATE OF SUSTAINABILITY

Innovation & Performance | Office of Sustainability



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# Introduction

## Background:

Climate change is a serious problem with major implications for global and local economies. In efforts to mitigate the impact of the City of Pittsburgh's operations on climate, improve Pittsburgh's ability to adapt and recover from shocks and stresses, and strengthen community response to the symptoms of climate change, the City developed the Office of Sustainability in October of 2008. The following report is an effort to apprise policy makers and stakeholders of the annual progress and activities of the Office.

The Office of Sustainability is part of the Department of Innovation & Performance. It consists of two full time staff members, the Sustainability Manager and Sustainability Coordinator. The Office is a resource to other city departments, policy makers and citizen stakeholders working to improve sustainability performance.

The Office of Sustainability's primary functions are to:

- Implement the municipal recommendations of the Pittsburgh Climate Action Plan
- Provide guidance and strengthen environmental initiatives throughout City operations
- Increase resource efficiency while reducing the environmental impacts of City facilities
- Integrate principles of sustainability and resilience into the culture of City of Pittsburgh departments and city neighborhoods
- Capture and create resources through sustainability- or resilience-related systematic improvements and funding opportunities
- Track and measure the City of Pittsburgh's climate change mitigation efforts and its progress towards improving city and organizational viability
- Share Pittsburgh's "green story" with local, national and international audiences
- Foster collaboration through intergovernmental/interagency partnerships.
- Convene instructional and community leaders in efforts to enhance Pittsburgh's progress towards a sustainable and resilient future.

## **Intent**

*Since its creation, the Office has led initiatives to reduce energy use in City-owned buildings, utilize renewable energy in City operations and involve citizens through activities such as air quality improvement, recycling, waste minimization, water reduction, community gardening and tree planting.*

*As a local government, the City of Pittsburgh has the ability to address sustainability by both improving internal municipal operations and influencing external decisions in areas such as land use, infrastructure and investment.*

*To better gauge productivity and performance, the Office of Sustainability set a number of targeted priority areas identified as the Office of Sustainability's Key Performance Indicators (KPIs). Tracking performance in the areas of employee awareness, indoor air quality, water consumption and quality city-wide energy consumption and waste diversion are critical ways to benchmark the Office's function and serve as the foundation for future programs. The City County Building currently serves as a pilot program for facility based monitoring as an initial action.*

## Key Performance Indicators:

The 2014 KPIs, outlined in the below table, serve as a basis for comparison and guide future work in programming and project prioritization.

Indicator	Description	Data Source	Baseline
<b>Baseline measurement of City Employee Commute Mode Share established by Q4 2014</b>	<b>Transportation mode share</b> for City employees	Employee Transportation Survey	Of those surveyed, 55% drive alone to work, 27% bus, 6% bike, 8% carpool and 4% walk.
<b>Employee Sustainability Awareness baseline established by Q4 of 2014</b>	Education baseline for <b>employee awareness of sustainability activities</b>	Employee Sustainability Awareness Survey	Of those surveyed, 36% did not know Pittsburgh had an Office of Sustainability, and of those who know the Office existed, 25% do not know what the Office of Sustainability does.
<b>Water Meter Installation in CCB and (other 2030 Buildings) completed by Q2 of 2015 + Conductivity Measurement initiated on 6th Floor by Q4 of 2014</b>	<b>Water quality and consumption</b> to guide conservation and improvement efforts	CCB water meter/ CATTfish water conductivity meter	Installation of water meters. Water within normal potable range
<b>Install CMU Speck monitors and collect data by Q4 of 2014</b>	<b>Indoor air quality monitoring</b>	CMU Create Lab – Speck monitor	Speck monitors deployed on two floors in City County Building
<b>Complete CCB waste audit and waste stream analysis by Q4 of 2015</b>	Establish data-derived foundation for <b>internal waste diversion</b> improvements	CCB Waste Audit Results	Preliminary waste audit completed. Result: creation and adoption of a new Citywide waste policy.
<b>Reduce Energy Consumption by 20% by 2020 from 2010 levels (5% Reduction is achieved by Q4 2015)</b>	Electricity consumption based on kilowatt hours (kWh) and Energy Use Intensity (EUI) - or energy per square foot.	Portfolio Manager Energy Consumption Reporting	We currently stand at a 3% improvement (2013=153) from our 2010 EUI(energy use intensity) baseline of 158

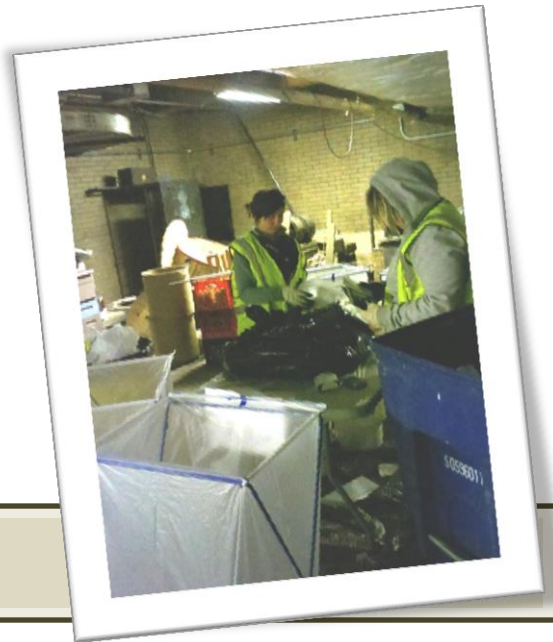
**Program Areas:**

The Office of Sustainability organizes its work into six programmatic areas. Each program area contains a variety of projects that are developed to address established performance metrics and influence operational or city-wide sustainability objectives. Program areas include:

1. Benchmarking & Recognition
2. Innovation & Process Improvement
3. Coordination & Facilitation
4. Funding & Resource Development
5. Sustainability & Resilience Planning
6. Communication & Education

The following pages summarize and provide insights into the Office's 2014 projects. An appendix is included at the end of the document to help readers identify acronyms and abbreviations.

*The waste audit concluded that there are issues with sustainable materials management, from collection to sorting and delivery*



## KPI: Waste Audit

The City of Pittsburgh in cooperation with Allegheny County and [the Pennsylvania Resource Council](#) performed a waste audit on the City County Building. This was the first audit conducted by the City of Pittsburgh allowing the Office of Sustainability to formally establish a baseline for the City County Building.

Pre-audit planning took place over the course of a month. The City, County and PRC worked closely with the City County Building's Recycling and Waste Coordinators, Facility Manager, Security and Cleaning staff. The active audit was completed in one day with additional mini-audits to ensure accuracy.

The waste audit concluded that there are issues with the transmission of waste from collection to sorting and delivery; most of which can be emended with a consistent staff and contractor education program. Other recommendations include:

- Quarterly recycling training with contracted maintenance staff to review changing procedures, identify departmental issues and combat issues that arise do to employee turnover.
- The inclusion of waste sorting procedures and the waste policy in new employee orientation and training.
- Investigating and integrating technological solutions in an effort to reduce paper waste
- Implementing policies to significantly reduce or eliminate the purchase of polystyrene products by departments and contracted vendors
- Working with departmental purchasing officers and vendors to investigate ways to reduce packaging
- Implement and enforces a green purchasing policy that includes the purchase of materials with recycled content where possible
- Evaluate ways to reduce or collect paper waste such as single sided white paper, cover sheets, letterhead for repurpose or reuse

Based on the results, the information provided from our audit will be used to influence departmental purchasing decisions, employee behavior and engagement, safety, waste removal procedures, storage, waste policies and maintenance/ construction contracts.

## Benchmarking & Recognition

### Program Objective:

Establish a transparent system of sustainability performance metrics and policy analysis that track the progress of measures that lead to the adoption of higher standards of operation and service.

### Measure(s) and Outcome(s):

- City of Pittsburgh standings in local, national and international sustainability and/or resilience rankings
- Internal operational diagnostics and key performance indicators.

### Project Dashboard:

Project	Outcome	Description	Partners
<b>ACEEE Scorecard</b>	Pittsburgh Ranked 20th out of 55 cities (moving up five spots from 2013)	American Council for an Energy Efficient Economy (ACEEE) scorecard measures the progress of city and state policies and programs that save energy while also benefiting the environment and promoting economic growth.	PCI (PEC and GBA)
<b>CDP</b>	Pittsburgh listed among the cities disclosing GHG inventory data	Carbon Disclosure Project (CDP) aggregates international carbon generation data from cities, public and private corporations.	
<b>GWC</b>	2nd Place finish in 2013 achieving 244 points	The Pittsburgh Green Workplace Challenge (GWC) enables businesses, nonprofits, municipalities, and colleges/universities to participate in a friendly competition where they can receive due recognition for their sustainable actions and achievements.	SP
<b>DOE BBC</b>	3% energy reduction since 2012. CCB is an Energy Star facility.	The Department of Energy's Better Buildings Challenge supports municipal, commercial and industrial building owners by providing technical assistance and proven solutions to energy efficiency.	DOE
<b>2030 District</b>	3 Buildings participating (CCB, Muni Courts, Medic 14&30). CCB is one of the highest performing facilities in the district. The Muni Courts building is one of the worst.	The Pittsburgh 2030 Districts are collaborative, nationally recognized, but local communities of high performance buildings in Downtown and Oakland that aim to dramatically reduce energy and water consumption and transportation emissions, and improve indoor air quality.	GBA
<b>Sustainable Pennsylvania Community Certification</b>	Ranked as Gold. Currently providing verification to become the first Platinum city in PA	SPCC enables Pennsylvania municipalities to participate in a friendly competition where they can receive due recognition for their sustainable actions and achievements.	SP



<b>Greenhouse Gas Inventory</b>	Hired SCA Fellow to complete Pittsburgh's 3rd GHG inventory	A Greenhouse Gas Inventory is a measurement of greenhouse gases (GHGs) emitted to or removed from the atmosphere over a period of time. Policy makers use inventories to establish a baseline for tracking emission trends, developing mitigation strategies and policies, and assessing progress.	PCI, SCA
<b>Employee Commute Survey</b>	55% drive, 45% other. Commute survey compiled	Tracks employee methods of commute to, from and during work. Survey results are used as a baseline for tracking trends, developing mitigations strategies and policies and assessing progress.	City Fit
<b>CCB Waste Audit</b>	Preliminary waste audit completed. City waste policy established and new disposable asset policy amended and accepted.	A Waste Audit is an evaluation of waste streams, containers and waste materials produced by a user or organization over a period of time. Policy makers use such audits to establish a baseline for tracking waste trends and product usage to developing mitigation strategies, policies and assessing progress.	Allegheny County, PRC
<b>City Fleet Inventory</b>	Vehicle emissions inventory of COP's 1035 vehicle fleet. Report completed.	A Fleet Inventory is an evaluation of City owned vehicles and their fuel types, efficiency and GHG emissions. Policy makers use such audits to establish a baseline for tracking asset trends and fuel usage to develop mitigation strategies, policies, determine capital expenditures and assess progress.	Heinz Endowments
<b>Facility Database</b>	Database created	Facility database created to combine facility performance data into one comprehensive database.	University of Pittsburgh

*Participating has been beneficial, aiding the Office of Sustainability and Operation Budget and Management to make critical decisions towards targeted resource allocations*



## B&R: 2030 District

Benchmarking facility performance is a key component of the Office of Sustainability. Benchmarking helps us identify strengths and weaknesses with regards to our facilities' operational performance in the areas of waste, electricity, gas and water use, and enables an estimate of the carbon emissions produced by our municipal buildings.

The Pittsburgh 2030 Districts are collaborative, nationally recognized, local communities of high performance buildings in Downtown and Oakland that aim to dramatically reduce energy and water consumption, reduce transportation emissions, and improve indoor air quality while boosting competitiveness in the business environment and owners' returns on investment. The Pittsburgh 2030 Districts are a strategic initiative of [Green Building Alliance](#), and currently represent nearly 70% of the total real estate square footage in downtown Pittsburgh and Oakland (over 65 million square feet by the end of 2014).

The City of Pittsburgh has three facilities committed to the goals of Pittsburgh's Downtown 2030 cohort; the City County Building, Municipal Courts Building, and Medic 14 Station. Over the past three years of participation, we have tracked and measured energy use at all committed facilities and implemented a number of pilot projects in efforts to increase the efficiency of our utility resources. As a result of our measurements, the City County Building is recognized as one of the highest performing facilities participating in the 2030 District, our EMS facility is showing average results, and the Municipal Courts building has been identified as a poor performer.

Participating has been beneficial, aiding the Office of Sustainability and Operation Budget and Management to make critical decisions towards targeted resource allocations towards projects to improve building performance. Some of the pilot projects implemented so far include SPECK air quality monitoring, CATT Fish water quality monitoring, LED lighting changeovers, Solar Roller Shade installations, Boss Controls dynamic plug load monitors, and the establishment of a Metro 21 building diagnostic project with CMU to begin developing a dashboard capable of reporting our utility use and indoor air quality in real time.

## Innovation & Process Improvement

### Program Objective:

Improve and integrate sustainable principles into city operations, services and policies.

### Measure(s) and Outcome(s):

- The amendment or introduction and/or passing of legislation by council
- The amendment or introduction and/or adoption of policies or process improvements
- Development or implementation of pilot programs

### Project Dashboard:

Project	Outcome	Description	Partners
<b>Wet Weather Planning and Regional Water Quality Improvement</b> (Policy)	Regional sewer policy recommendations complete, Pittsburgh Green Infrastructure Plan initiated	Group organized to help ALCOSAN roll out their plan for Governance and Inter-municipal Line Conveyance	CONNECT and 3RWW, Institute of Politics and various local governments
<b>Garage Lighting Code</b> (Legislation)	Lighting code amended to allow for the use of LED lighting	The City of Pittsburgh Lighting Code was amended to allow for the use of sustainable technologies and design methods in the application of all lighting systems. The code adjustment allowed for an increase in lighting lumens in Pittsburgh garages.	City Council, GBA, SEA
<b>GSA Team</b> (Process Improvement)	City-wide tour of green assets, DPW developed an online volunteer permit, DCP formed vacant lot tool kit steering committee, park rangers program (included in City capital budget.)	The Green Space Alliance is dedicated to preserving and connecting open space throughout Southeastern Pennsylvania.	Western PA Conservancy, Parks Conservancy, Mount Washington CDC, Tree Pittsburgh, GTECH
<b>Energy Benchmarking Team</b> (Policy Development)	Established Team, Created Duquesne SMBA Research Report, Metro 21 Building Performance project, joined USDN Peer to Peer Network, Hosted Institute for Market Transformation	The Energy Benchmarking team is a subgroup of PCI. The team was formed to explore the possibilities for energy benchmarking and energy disclosure in Pittsburgh.	Penn Future, GBA, PEC
<b>Clean Construction</b> (Policy Development)	Created the Heavy Equipment Database, Policy Analysis from Law Dept. with recommendations	The Clean Construction team meets to discuss the role and implementation of the accepted Clean Construction Legislation in Pittsburgh.	GASP, Controller, Law, Mayor's Office, DPW
<b>Waste Policy</b> (Policy)		COP's Waste Policy was amended to resolve waste	OS, DPW, OMB

		backlog of furniture and other hard to recycle items (e-waste). The policy also reinforces proper waste handling procedures, such as recycling.	
<b>Recycle Container</b> (Pilot Project)	Pilot Kickoff, Established working group, partnership with the Buhl Foundation, ALCOA Foundation Funds Received, Applied for USDN Partners for Places Grant, Established Recycling, Container Specs	Pilot project to test the possibility of changing Pittsburgh from bags to bins for curbside recycling.	PRC, Waste Management, Rehrig Pacific Environmental Services, DPW
<b>Biofuel Conversion</b>	Continuation of Biofuel project with Optimus Tech and Fleet Evaluation	Pilot project developed to convert diesel run trucks to bio-diesel	Optimus Technology, OMB, DPW
<b>Fleet Analysis</b>	Organized data collection and analysis, preparing for user groups evaluations	Fleet Inventory, evaluating emissions reductions, purchasing and leasing scenarios for alternative fuel vehicles	OMB, DPW
<b>Office LED Lighting</b>	Pilot for energy-efficient lighting upgrades	Energy-efficient lighting upgrades for COP based on COP energy audit	DPW

*The waste policy was drafted in response to questions regarding the proper disposal of trash, recycling, e-waste, furniture and surplus equipment*



## I&P: Waste Policy

City of Pittsburgh's [employee waste policy](#) was completed in 2014. The document was drafted in response to questions regarding the proper disposal of trash, recycling, e-waste, furniture and surplus equipment. After months of departmental location and staff changes, many facilities quickly became overrun with surplus waste materials. Changes to City leadership also brought in a new wave of employees unfamiliar with current City procedures.

Completing a waste audit was a critical function and first step in evaluating the City of Pittsburgh's internal waste stream. Our completed waste audit provided a snapshot of what materials the City purchases and expels as trash and/or recycling, and also illuminated inefficiencies and opportunities to improvements to our waste stream process. The audit's resultant information allowed the Office of Sustainability to draft the department of Innovation & Performance's first official Waste Policy, which was then adopted as a City-wide policy. The new policy also works in conjunction with amendments made to the current Property Control User Guide. Since its adoption, the Office of Sustainability has piloted its implementation in the I&P department on the sixth floor of the City County Building. Based on the pilot, we have identified the need for new signage, the creation of an abbreviated guide for employees as well as training for both employees and maintenance staff.

*Prior to recent amendments, the code did not recognize the ability of modern technology to meet necessary lighting demands using only a fraction of the energy required*



## I&PI: Garage Lighting Retrofit

During the last quarter of 2014, the Office of Sustainability revisited the lighting code at the request of our community partners at the David Lawrence Convention Center. Prior to recent amendments, the code did not recognize the ability of modern technology to meet necessary lighting demands using only a fraction of the energy required by previous models.

A slight change in language allowed the Convention Center to install LED light fixtures and realize about \$92,000 in annual savings and an additional \$247,000 in fixture replacement savings and lighting rebates. The project exemplified an ability to create real change via policy evaluations.

With such lucrative projections, the City formed a partnership with the Green Building Alliance, the Urban Redevelopment Authority and the Pittsburgh Parking Authority to form its own pilot project. Through funding provided by the [Pennsylvania Energy Department Authority](#), the City will be able to retrofit three municipal parking garages with LED lighting and new controls.. Based on the results of a successful pilot, the City aspires to expand the pilot and ensure improvements in public safety and cost savings throughout its garages, setting an example for the rest of the region.

## Coordination & Facilitation

### Program Objective:

Convene and coordinate partners to facilitate information sharing, project continuity and follow-through between authorities, local governments, and non-governmental organizations (NGOs).

### Measure(s) and Outcome(s):

- Projects accomplished or issues resolved in collaboration with partners
- Establishment of new partnerships
- Continuation of existing partnerships

### Project Dashboard:

Project	Outcome	Description	Partners
<b>PCI</b> (Co-Convened by the City)	Creation of transportation group, increase in Staff (SCA Hire), EPA climate hearing coordination	PCI is a collaborative platform of nonprofit, local government, business, and institutional organizations.. PCI guides implementation and updates of the Pittsburgh Climate Action Plan, while coordinating resulting activities and tracking local GHG emissions and reductions.	COP, Allegheny County, HECC, GBA, PEC, SP, SEA, HACP, PWSA, URA, SCA and Penn Future
<b>Authority Sustainability Collaborative</b>	Lighting code amended and successful PEDA Grant submission	Collaborative of Authority Sustainability managers who meet as a collective to coordinate city based sustainable initiatives.	PWSA, HACP, URA, SEA, PPA
<b>SPC</b>	Approved the SMART transportation program, Sustainability Workshop, Formed a GHG Data Partnership	The Southwestern Pennsylvania Commission (SPC) is the cooperative forum for regional collaboration, planning, and public decision-making.	
<b>CONNECT</b>	Mayor Peduto will serve as Chair in, Finalization of SRIC (Sewer Regional Investment Committee.)	The Congress of Neighboring Communities is an organization that promotes cooperation and collaboration between the City of Pittsburgh and the 36 municipalities that comprise the region's urban core. Its mission is to coordinate the activities of the 37 municipalities.	37 core municipalities
<b>ALOM</b>	Reconnected with ALOM	The League is a voluntary umbrella organization of boroughs, townships, cities, home rule municipalities, municipal authorities and the County of Allegheny.	Allegheny County Municipalities

<b>Mayor's Round Table</b>	Hosted three round table discussions yielded: Successful Resilient Cities Application, CMU Clean Tech Report and Recycling Container Pilot Project	Mayor William Peduto hosted the Innovation Roundtable series, which highlighted innovative organizations in the City of Pittsburgh. These roundtables were used to help inform the creation of Pittsburgh's first Innovation Roadmap, which was released in early 2015.	
<b>Shade Tree Commission</b>	Created a 2015 agenda, identified a liaison for the City,	The Shade Tree Commission is a non-profit organization, linked to the Mayor's Office, with the task of restoring and maintaining the city's tree population, in recognition of the value of Pittsburgh's urban trees as one of our city's greatest assets.	
<b>Clean Pittsburgh Commission</b>	Printed their annual report, Assisted in production for City Cable Channel - Crying Steeler Fan Public Service Announcement	The Clean Pittsburgh Commission works to improve the environmental quality of life of Pittsburgh residents through litter and illegal dumping prevention, cleanup and enforcement.	PRC, DPW, DPS, AC, BBI
<b>CUSP</b>	Design of education and outreach toolkits for community planning meetings and table events	The Climate & Urban Systems Partnership (CUSP) is a group of informal science educators, climate scientists, and learning scientists in four Northeast U.S. cities (Philadelphia, Pittsburgh, New York City, and Washington, DC.), funded by the National Science Foundation to explore innovative ways to engage city residents in climate change issues.	Carnegie Museum, PCCR, Conservation Consultants Inc., G-TECH, PEC, Penn Future, CMU, Chatham Univ., GBA, Riverquest, PPS, Tree Pittsburgh, UPCLOSE, Phipps Conservatory, National Aviary, Pgh Zoo, PCI



*PCI members continue to serve as critical partners, helping to lead Pittsburgh on its road to Sustainability and Resilience*



## C&F: Pittsburgh Climate Initiative

[Pittsburgh Climate Initiative \(PCI\)](#) began in 2008 to guide implementation and complete updates to Pittsburgh's Climate Action Plan (PCAP). Convened by the City of Pittsburgh, in partnership with Pennsylvania Environment Council, PCI works collaboratively in the Pittsburgh region to reduce greenhouse gasses through measurable actions, raising awareness and engaging Pittsburgh's governments, businesses, higher education institutions, and residents. PCI is responsible for revising the PCAP and recommending actions that will mitigate greenhouse gas emissions to reduce their impact on the local economy and human well-being.

Since its development, PCI and its members have implemented and provided oversight for numerous grant and investment proposals such as the [100 Resilient Cities Challenge](#), the first and second versions of the [Climate Action Plan](#), two Pittsburgh [Greenhouse Gas Inventories](#), numerous municipal surveys such as the [ACEEE Scorecard](#) and the development of local programs such as the [Green Workplace Challenge](#).

As we develop the third iteration of the Greenhouse Gas Emissions report and Climate Action Plan, PCI members continue to serve as critical partners, helping to lead Pittsburgh on its road to sustainability and resilience.

## Funding & Resource Development

### Program Objective:

Increase resource (monetary, product, human or knowledge capital) availability to improve the City's ability to service its communities.

### Measure(s) and Outcome(s):

- Percentage of grants won (won five of the eight grants applied for to date)
- Funding allocation to projects
- Demonstrated cost savings due to project implementation
- Adoption of new technology or processes

### Project Dashboard:

Project	Outcome	Description	Partners	Resources
<b>Heinz Astrofootprint</b>	De-Light Pittsburgh,	Project participation in Earth Hour and streetlight replacement analysis that will result in education content for web site and Pittsburgh Cable Channel	CMU, AAA, PPC, Evolve	\$ 25,000
<b>PEDA</b>	Funding source for energy-efficient garage lighting and lighting controls improvements.	The Pennsylvania Energy Development Authority (PEDA) provides grants to encourage energy efficiency and adoption of Pennsylvania based firms.	GBA, URA, PPA	\$470,000 (GBA serving as fiduciary)
<b>Resilient Pittsburgh</b>	Funding for resilience staff and support to develop a resilience strategy	100 Resilient Cities challenge was created to develop a network of cities capable of generating best practices which can be applied to other cities and help create communities capable of withstanding and overcoming shocks and stresses.	PCI, DEMHS, DCP, OMB, DPW	Funding for Resilience Office staff, platform of partners
<b>Eco District Incubator</b>	Training and developmental plan assistance for Eco District implementation at community scale	Eco District Incubator was created to provide support and leadership for urban change makers and innovators to accelerate sustainable district- and neighborhood-scale regeneration. Participants have a shared vision for creating sustainable cities from the neighborhood up.	Evolve, DCP, SP, OPDC, UPP, CIE	\$7,500 (SP served as fiduciary)
<b>American Architectural Foundation - Sawmill Run</b>	Training and developmental plan assistance for Sawmill Run Watershed pilot	Training and developmental plan assistance for Sawmill Run Watershed pilot project	PWSA, EDS	\$7,500 (In kind funding to cover training and travel)

project				
<b>LGA</b>	Municipal Intern Program	Grant funding to provide municipalities with graduate level interns for project development. LGA provided I&P with new talent.	LGA	Funding to support a summer intern position

*De-Light is an initiative encouraging  
a city-wide focus on energy  
efficiency*



## F&RD: De-Light Pittsburgh

In late 2014, the I&P Office of Sustainability (OS) submitted a successful grant application for the Heinz Astronomical Footprint Grant.

The award supplies OS with \$25,000 of funding to use towards launching a one-year campaign entitled "[De-Light Pittsburgh](#)". De-Light is an initiative encouraging a city-wide focus on energy efficiency, energy consciousness, and ecologic balance among citizens. Along with energy-efficient education, the project also funds the launch of Phase II of [Pittsburgh's streetlight changeover](#) to the more efficient LED models that not only save the city money, reduce our carbon footprint, provide improved safety/ night visibility on the ground, but also protect the night sky from light pollution.

To launch the year-long initiative, OS partnered with the Green Building Alliance, Carnegie Mellon University, the Amateur Astronomers Association of Pittsburgh, Green Workplace Challenge, and the Pittsburgh Parks Conservancy to hold its launch event on March 28th, 2014 during the internationally recognized [Earth Hour](#). In support of Earth Hour and the launch of De-Light, [over 120 Pittsburgh Downtown and Oakland 2030 District large businesses and university partners](#) successfully extinguished exterior non-safety related lighting and signage for one hour starting at 8:30pm, making this the largest Earth Hour in Pittsburgh to date, a 100% increase in participation from previous years.

Moving forward with De-Light, the City of Pittsburgh will compose a number of public service announcements to increase public knowledge of the regional health, economic and ecologic benefits with regards to energy efficiency and light pollution measures. A website, hosted by the Office of Sustainability, is also under development to connect residents to astrological and energy engagement activities across the region. The website will provide 2015 – 2016 event details and track Pittsburgh "Happenings" by presenting them on a map entitled Our Pittsburgh Constellation.

## Sustainability & Resilience Planning

### Program Objective:

Integrate sustainability and resilience principles into citywide planning efforts.

### Measure(s) and Outcome(s):

- Plans Complete
- Interdepartmental and/or community participation in planning
- Leadership and/or partnerships demonstrated during planning efforts
- Steering Committees formed or participated in
- Percentage of plans in agreement with each other

### Project Dashboard:

Projects	Outcome	Description	Partners
<b>Eco District Plan</b>	Initiation of Eco District planning for the Uptown Corridor, Establishment of the Eco District steering group, intro into the Eco District incubator, funding support from two local funders for travel and training	Shared vision for creating sustainable cities from the neighborhood up.	OPDC, Uptown Partners, URA, DCP, SP
<b>Climate Action Plan</b>	Stronger development of transportation section, continued plan implementation, municipal energy disclosure discussion and start of 3rd GHG inventory	A Climate Action Plan (CAP) is a set of strategies intended to guide efforts for reducing greenhouse gas emissions.	PCI
<b>Resilience Plan</b>	Acceptance into Rockefeller 100 Resilient Cities Program, Hosting of Building Resilient Pittsburgh Round Table, Hosting of Building Resilient Pittsburgh project with CMU	A Resilience Plan is a set of strategies intended to guide efforts to mitigate and respond to acute shocks and chronic stresses that threaten health, social wellbeing, economy, infrastructure and the environment.	BEMH, 100 RC, DCP, DPW
<b>Green Infrastructure Plan</b>	Homeowner's Guide to Storm water, Green Infrastructure Master Plan for city under contract, PWSA Scope for City-Wide Green Infrastructure Plan	Plan to reduce storm water overflows, mitigate flooding, improve green & gray water infrastructure, and address water quality issues	PWSA, ALCOSAN, EDS

*By addressing both the shocks and the stresses, a city improves its ability to respond to adverse events*



## S&RP: 100 Resilient Cities

100 Resilient Cities - Pioneered by the Rockefeller Foundation (100RC) is dedicated to helping cities around the world become more resilient to the physical, social and economic challenges. 100RC supports the adoption and incorporation of a view of resilience that includes epidemic shocks such as earthquakes, fires, floods, etc. as well as social and economic stresses that impede a city's ability to operate effectively. Examples of such stresses include high unemployment; an inefficient public transportation system; extreme violence; or chronic food and water shortages. By addressing both the shocks and the stresses, a city improves its ability to respond to adverse events improving its ability to deliver basic functions to all its residents.

Cities in the 100RC network are provided with the resources necessary to develop a roadmap to resilience along addressing four main issues:

1. Financial and logistical guidance through the development of Resilience leadership
2. Expert support and guidance in a variety of fields
3. Access to solution service providers
4. Membership in a diverse global network of partner cities

The road to resilience is a long one, challenging Pittsburgh stakeholders to reconsider all aspects of city operations from service accessibility to food systems and beyond. Collaboration with 100RC has already begun to positively impact the City, providing much needed capacity by supporting the creation of two full-time resilience staff positions that will be funded for two years. . 100RC has also inspired conversations to synthesize connections between networks, across silos and throughout the region. The Office of Sustainability, with the assistance of PCI, was able to convene over 300 regional stakeholders in 11 focused information gathering sessions prior to the official launch of the Pittsburgh resilience strategy development process. On June 5, 2015, 100RC and Pittsburgh's strategy partner, the RAND Corporation, facilitated an agenda-setting workshop with over 160 attendees from a broad variety of organizations and fields. One of the first of many meetings to come, the workshop sparked new relationships, discussion and ideas for the development of a resilience plan for Pittsburgh which will address issues of environmental protection, food security, safety, poverty, health, diversity, education and economic opportunity.

## Communication & Education

### Program Objective:

Share the story of Pittsburgh's continual progress as a sustainable and resilient city, both internally with employees and organizational leaders, and externally with local, national and international stakeholders.

### Measure(s) and Outcome(s):

- Percentage of employees and community members aware of Pittsburgh's Office of Sustainability
- Participation of community and employees at meetings, events and/or workshops
- Web traffic to Office of Sustainability Page
- Appearance requests for Office staff as speakers or presenters at programs, conferences, events and workshops
- Media coverage and/or quotes produced by the Office of Sustainability

### Project Dashboard:

Project	Outcome	Description	Partners
<b>Employee Outreach</b>	Two Sustainability Sessions introducing OS work and the new waste policy. Hosted information tables at the Employee Health Fair. Completion of the Transportation survey	Employee Education	DPW
<b>Community Outreach</b>	1000 Trees given away, Start of De-Light Pittsburgh	Arbor Day-1,000 tree giveaway. De-Light is a year-long initiative to encourage energy consciousness and ecological awareness among Pittsburgh citizens	DPW - Forestry, CMU, GBA, Parks Conservancy, AAA
<b>Website</b>	Site improvements. Our page received over 20,000 hits in 2014	Web page updates and layout improvements	I&P Web Team
<b>Cable Programs</b>	Three televised round tables produced and aired	Sustainability-focused programming on the city cable channel.	I&P Cable Team, Mayor's Office
<b>Media Coverage</b>	10 media hits	Media coverage discussing OS events, activities and/or programs	Pittsburgh media
<b>Public Speaking</b>	11 Public speaking engagements	Request for OS staff in leading a conference, workshop, class, discussion or to act as a mediator or mentor.	GBA, Robert Morris, CMU, Pitt, Hazard Mitigation Conference

*The ability to peek behind the municipal curtain has proven to be a huge asset, allowing us to show that we are acknowledging public concerns*



## C&E: Mayor's Round Tables

With sustainability being such a broad topic, it is not always easy to share success stories or discuss areas of concern in a way that is accessible to the mass public. Recognizing the challenges to our ability to communicate, the Office of Sustainability collaborated with our City Cable Team to tape and broadcast conversations important to the Pittsburgh region through the [Mayor's Roundtable series](#).

The ability peek behind the municipal curtain has proven to be a huge asset, allowing us to show that we are acknowledging public concerns around issues that impact Pittsburgh communities and beyond. Utilizing cable and web access, residents are able to hear the conversations taking place at the "Mayor's Table," engage in new ideas, debate issues, discuss solutions and to weigh in on implementation strategies which helps leaders develop more thoughtful and innovation solutions. Sustainability round table discussions on Innovation, Resilient Cities, Clean Technology, BioEnergy, Recycling and Waste have connected with Pittsburgh audiences, helping us to better understand, identify and respond to the issues facing 21st century Pittsburgh.



## Acronyms and Abbreviations

**AAA** - Association of Amateur Astrologers  
**AC** - Allegheny Clean Ways  
**ACEEE** - American Council for an Energy Efficient Economy  
**ALCOSAN** - Allegheny County Sanitation Authority  
**BBC** - Better Building Challenge  
**BBI** - Bureau of Building Inspection, COP  
**CCB** - City County Building  
**CCI** - Conservation Consultants Inc.  
**CDP** - Carbon Disclosure Project  
**CIE** - Center for Innovation and Entrepreneurship  
**CMU** - Carnegie Mellon University  
**CONNECT** - Congress of Neighboring Communities  
**COP** - City of Pittsburgh (Municipal Organization)  
**County** - Allegheny County  
**CPC** - Clean Pittsburgh Commission, COP  
**CUSP** - Climate Urban Systems Partnership  
**DCP** - Department of City Planning, COP  
**DOE** - United States Department of Energy  
**DPS** - Department of Public Safety, COP  
**DPW** - Department of Public Works, COP  
**EDS** - Economic Development South  
**ES** - Environmental Services  
**GBA** - Green Building Alliance  
**HACP** - Housing Authority of the City of Pittsburgh  
**I&P** - Department of Innovation and Performance, COP  
**IOP** - Institute of Politics  
**NMRWA** - Nine Mile Run Watershed Association  
**OMB** - Office of Management and Budget, COP  
**OPDC** - Oakland Planning and Development Corporation  
**OS** - Office of Sustainability, COP  
**PAT** - Port Authority of Allegheny County  
**PCCR** - Pittsburgh Center for Creative Reuse  
**PCI** - Pittsburgh Climate Consortium  
**PEC** - Pennsylvania Environmental Council  
**Penn Future** - Citizens of Pennsylvania's Future  
**PGH** - City of Pittsburgh (Regional Boundary and its communities)  
**Pitt** - University of Pittsburgh  
**PPA** - Pittsburgh Parking Authority  
**PPC** - Pittsburgh Parks Conservancy  
**PPS** - Pittsburgh Public Schools  
**PRC** - Pennsylvania Resource Council  
**PWSA** - Pittsburgh Water and Sewer Authority  
**SCA** - Student Conservation Authority  
**SEA** - Sports and Exhibition Authority  
**SC** - Sustainability Coordinator, COP  
**SM** - Sustainability Manager, COP  
**SP** - Sustainable Pittsburgh  
**SPC** - Southwestern Pennsylvania Commission  
**SRIC** - Sewer Regionalization Investment Committee  
**STC** - Shade Tree Commission  
**UPCLOSE** - University of Pittsburgh Center for Learning in Out of School Environments  
**UPP** - Uptown Partners of Pittsburgh  
**URA** - Urban Redevelopment Authority